

24096 ECA/W33



Spherical roller bearing with relubrication features

Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. The design includes features to facilitate relubrication. The bearings can be used in a modular system, including housings, sleeves and nuts.

- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

Overview

Dimensions

Bore diameter	480 mm
Outside diameter	700 mm
Width	218 mm

Performance

Basic dynamic load rating	5 524 kN
Basic static load rating	10 400 kN
Reference speed	450 r/min
Limiting speed	750 r/min
SKF performance class	SKF Explorer

Properties

Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Machined metal
Radial internal clearance	CN
Tolerance class for dimensions	Normal
Tolerance class for run-out	Normal
Sealing	Without
Lubricant	None
Relubrication feature	With
Candidate for remanufacturing	Yes mm

Technical Specification

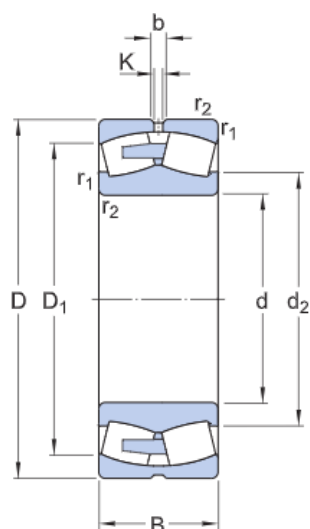
SKF performance class

SKF Explorer

Bore type

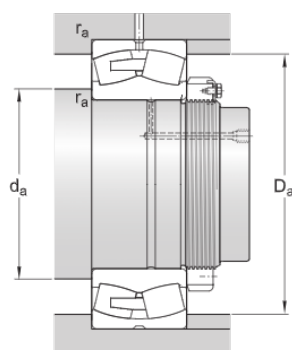
Cylindrical

Dimensions



d	480 mm	Bore diameter
D	700 mm	Outside diameter
B	218 mm	Width
d ₂	≈ 542 mm	Shoulder diameter of inner ring
D ₁	≈ 619 mm	Shoulder/recess diameter of outer ring
b	22.3 mm	Width of lubrication groove
K	12 mm	Diameter of lubrication hole
r _{1,2}	min. 6 mm	Chamfer dimension

Abutment dimensions



d _a	min. 503 mm	Diameter of shaft abutment
D _a	max. 677 mm	Diameter of housing abutment
r _a	max. 5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	5 524 kN
Basic static load rating	C ₀	10 400 kN

Fatigue load limit	P_u	680 kN
Reference speed		450 r/min
Limiting speed		750 r/min
Limiting value	e	0.28
Calculation factor	Y_1	2.4
Calculation factor	Y_2	3.6
Calculation factor	Y_0	2.5

Mass

Mass	285 kg
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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